

WHAT IS CLAIMED IS:

1. A dynamoelectric machine which is connectable to an adjacent part while being simultaneously protected from moisture or contaminants, the machine comprising:

a casing having a hollow interior defining a housing and a  
5 longitudinal axis;

an endshield positioned generally at an end of the casing and mounting at least one electrical component used in operation of the machine, the endshield having a wall projecting in a longitudinal direction and further having at least two openings for receiving fasteners to connect the machine to said  
10 adjacent part, the at least two openings defining respective fastening locations on the endshield; and

a cover removably mounted on the endshield and defining an enclosure to protect said at least one electrical component, the cover being configured for an overlapping fit with at least a portion of the wall of the endshield  
15 to prevent passage of moisture or contaminants into the enclosure;

wherein the cover is further configured to avoid covering said at least two openings when mounted on the endshield such that said fastener locations lie outside of the enclosure and are accessible for connecting the machine to said adjacent part while the cover remains mounted on the endshield.

2. A dynamoelectric machine as set forth in claim 1 wherein said cover is the only cover protecting said at least one electrical component, the machine being free from any secondary cover such that, within said enclosure, the at least one electrical component is uncovered and openly exposed.

3. A dynamoelectric machine as set forth in claim 2 wherein the cover further comprises a longitudinal indentation positioned so that when the cover is mounted on the endshield, the indentation is at one of said at least two openings to avoid covering said opening.

4. A dynamoelectric machine as set forth in claim 3 wherein the wall of the endshield has a recess corresponding with said indentation in the cover whereby the cover maintains said overlapping fit with said wall at said indentation.

5. A dynamoelectric machine as set forth in claim 4 wherein said endshield further comprises an outer rim projecting generally radially outward from the wall and defining a continuous shoulder around the wall engageable by the cover when mounted on the endshield.

6. A dynamoelectric machine as set forth in claim 5 further comprising a bearing hub located on an inner side of the endshield.

7. A dynamoelectric machine as set forth in claim 5 wherein the endshield has four openings positioned generally at an outer peripheral margin of the endshield.

8. A dynamoelectric machine as set forth in claim 7 wherein the cover has two indentations corresponding to two of said four openings, and the wall of the endshield has two corresponding recesses.

9. A dynamoelectric machine as set forth in claim 1 further comprising said fasteners for connecting the machine to said adjacent part, each fastener comprising an elongate threaded fastener having a head for engaging the endshield at a respective recess.

10. A dynamoelectric machine as set forth in claim 1 wherein the endshield further comprises an arch-shaped formation projecting in the longitudinal direction with an opening therein for passage of an electrical cord therethrough.

11. A dynamoelectric machine as set forth in claim 10 wherein the wall and rim extend around the arch-shaped formation.

12. A dynamoelectric machine as set forth in claim 1 wherein the wall is an outer sidewall extending around the endshield at a peripheral margin of the endshield.

13. A dynamoelectric machine as set forth in claim 1 wherein the cover comprises a flat end wall and a skirt, the skirt having a shape corresponding with said portion of the wall to provide for said overlapping fit.

14. A dynamoelectric machine as set forth in claim 1 wherein said portion of the wall is a vertically upper portion.

15. A dynamoelectric machine as set forth in claim 1 further comprising a fastener attaching the cover to the endshield, and wherein said fastener is the only fastener which must be removed to access said at least one electrical component.

16. A dynamoelectric machine as set forth in claim 15 further comprising a boss on the endshield and a stem on the cover which align for receiving said fastener to attach the cover to the endshield.

17. A method of protecting a dynamoelectric machine from moisture or contaminants while connecting the machine to an adjacent part, the

machine having a casing, two opposite endshields, and at least two fasteners  
connecting the endshields and extending beyond the casing for connection to  
5 said adjacent part, the method comprising the steps of:

mounting a cover on a portion of one of said endshields with a fit  
which overlaps a sidewall of the endshield to prevent passage of moisture or  
contaminants, the cover being configured to avoid covering said fasteners; and

manipulating the fasteners to connect the machine to said adjacent  
10 part while the cover remains mounted on the endshield.